

Superfund Records Center
SITE: Olin Chemical
BREAK: 2-1
OTHER: 484708

EPA Official Record

Notes ID: 6A84517ED3820118852578800073FB1C

From: Jim DiLorenzo/R1/USEPA/US

To: "Cosio, Julie (DPH)" <Julie.Cosio@state.ma.us>

Copy To: Joseph.Coyne@state.ma.us; HFord@nobisengineering.com

Delivered Date: 09/16/2010 05:35 PM EDT

Subject: RE: Olin - residential wells summary

Hi Julie,

I apologize for not getting back to you sooner. I have been dealing with end of the fiscal year targets.

I hope by now you found that I did include the entire Table c20 in my original email. "U" is defined on the very last page of that table. What is not defined anywhere is the meaning behind "FS" and "FD"? These are not common acronyms so I will have to check with Olin and get back to you.

There is no official documentation yet for the reduction from 21 down to 12 wells. Olin had not sampled private wells in 2006 and 2007. They sampled a hand full in 2005. Older sampling tended to be more sporadic.

When EPA first made the request for Olin to identify and sample potential private wells in proximity to the known plume, they went through their historic records and then checked for well permits with the Town of Wilmington. Based on these 2 sources of information, they created a list with 42 possible well locations on it (see attached July 28th spreadsheet). 19 were immediately identified as having been documented as closed (status was abandoned or NOL, which means Olin purchased their water rights sometime in the 90's and filled their well).

Of the 23 remaining locations, 2 were duplicate wells with different parcel numbers. This left 21 possible sample locations. This was reduced down to the current 12 active sample locations by actively attempting to contact the owners. Of the 9 reductions, 5 owners stated they did not have a private well on their property. The remaining 4 owners never responded to multiple requests to sample by Olin (phone calls and door knocks.) These 4 properties are at
(may no longer have a well).

Olin sampled these 12 locations in July. I will forward the validated data when it comes in. The next samples will be taken in mid October.

Hope this helps,
Jim



Proposed Residential Wells for Sampling update July 28.xls

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▽ "Cosio, Julie (DPH)" ---09/02/2010 01:26:11 PM---Hello Jim, Thank you for sending this data. I do have a few questions relating to the older residen

From: "Cosio, Julie (DPH)" <Julie.Cosio@state.ma.us>

To: Jim Dilorenzo/R1/USEPA/US@EPA

Date: 09/02/2010 01:26 PM

Subject: RE: Olin - residential wells summary

Hello Jim,

Thank you for sending this data. I do have a few questions relating to the older residential well data summarized in table c-20. It appears that you included the pages of the table where there were actual detects. Would you mind sending the complete table so I can see the entire list of target analytes? Also can you confirm that "U" is this table means that there were no-detects above the reporting limit and that the value provided next to the U is the reporting limit. Also can you define "FD" and "FS"?

For the recent sampling you mention that there were approximately 21 potential potable or private wells and later the list was narrowed to 12 locations because 9 were no longer in existence. Do you know when/if those 9 wells were operational and when they were closed?

Thank you,
Julie

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Julie Cosio, MPH
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From: dilorenzo.jim@epamail.epa.gov [dilorenzo.jim@epamail.epa.gov]
Sent: Friday, August 20, 2010 1:22 PM
To: Cosio, Julie (DPH)
Cc: Sweet.William@epamail.epa.gov; Coyne, Joseph (DEP);
Cianciarulo.Bob@epamail.epa.gov
Subject: Olin - residential wells summary

Hi Julie,

This email and attachments summarize private well sampling efforts to date associated with the Olin Chemical Superfund Site located in

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Wilmington, MA.

Pre-Superfund Brief History

Olin Corp. began sampling area private wells in 1996. Site-related contaminants were originally found in 3 private wells along Main Street. Under an agreement with the property owners, Olin Corp. decommissioned these 3 wells sometime around 2002, and replaced with a public water supply connection. No scheduled private well sampling continued intermittently until 2005, when the Site was proposed on the EPA National Priorities List (NPL). No other site-related impacts were identified.

Recent Sampling Brief History

At EPA's request, Olin Corp. resumed private well sampling efforts in 2008.

Approximately 21 potential potable or private irrigation well properties were identified. This list was later narrowed to 12 locations after confirming 9 wells no longer existed. Owners at 2 locations have been unresponsive to numerous requests for access.

All wells are in Wilmington. The primary area of concern is the neighborhood containing immediately south of the Olin property. Public water is not available in this neighborhood. There is also one potable and one irrigation well located to the north and west of

One of the Olin site target analytes, n-nitrosodimethylamine (NDMA) continues to be detected in 2 private wells located at There are no federal or state dws for NDMA. EPA is using a conservative lifetime exposure estimate to make recommendations to the owners. EPA has not recommended any restrictions on use of these wells.

Other potential site-related compounds detected include BEHP, NDPA and hydrazine. Elevated chlorides, ammonia, nitrates and sulfides; and low pH, may also be indicative of site-related impacts. Wells are currently being sampled quarterly.

Attachments

Table with private well locations; location map; and table listing analytes currently monitored.
Summary table of most recent sample results (Oct. 2008 through March 2010).
Summary table of older private well results (1996 to 2008).
Sub-set of summary table of older private well results hand-marking potential site-related detections.
Risk calculations for potential exposures to NDMA and NDPA by EPA.

Please let me know if you have any questions or want to discuss the above in more detail.

Thanks,

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Jim

(See attached file: location table map_analytes_Aug2010.pdf) (See attached file: Summary Data Table_March2010_rev02 (2).xlsx) (See attached file: Table C-20_potential site detects only.pdf) (See attached file: Table C-20 - Usable Existing Groundwater Data - Private Wells.pdf) (See attached file: risk calcs_through Aug2010.pdf)

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